INDEX TO GEOPHYSICS, VOLUME XXII

	No.	Page
Absorption of Sound in Sediments. J. Busby and E. G. Richardson	4	821
"Advances in Geophysics, Volume III," H. E. Landsbert, Editor, Academic Press, Inc., 375 p. Review by Franklyn K. Levin	3	723
American Physical Society Southwestern Meeting	3	751
"Annotated Tables of Strength and Elastic Properties of Rocks," by Rudolph G. Wuerker, Society of Petroleum Engineers, Dallas, Texas, 24 p., 1956. Review by W. T. Born	3	723
Annual Report	1	180
"Antarctica in the International Geophysical Year," American Geophysical Union, Washington, D. C., 140 p., 1956. Review by W. T. Born	2	453
Atlantic Refining Company Grants	3	760
Attenuation of Sound in Rocks. M. Krishnamurthi and S. Balakrishna	2	268
Bailey, Leslie F., see Ben S. Melton	3	565
Balakrishna, S., see M. Krishnamurthi	2	268
Baranov, V. A New Method for Interpretation of Aeromagnetic Maps: Pseudo-Gravimetric Anomalies	2	359
Berckhemer, Hans, see George H. Sutton	4	779
Berg, Joseph W., Jr., see Peter Mandel, Jr.	2	398
Berg, Joseph W., Jr., see William O. Murphy, Jr.	4	813
Bhattacharyya, Bimal Krishna. Propagation of an Electric Pulse Through a Homogeneous and Isotropic Medium	4	905
Bhattacharyya, Bimal Krishna. Propagation of Transient Electromagnetic Waves in a Medium of Finite Conductivity	1	75
Black, R. A., see L. C. Pakiser	1	32
Busby, J., and E. G. Richardson. The Absorption of Sound in Sediments	4	821
Calculation of Guard Electrode Response Curves. Leendert De Witte, Kenneth P. Fournier and Hernan Tejada-Flores	1	67
Calendar of Meetings	1	224
	2	522
	3	766
	4	960
Calgary Section Golf Tournament	1	216
Canadian SEG Supports Calgary Technical Library	2	515
Chart to Check Elevation Factor Effects on Gravity Anomalies. L. F. Ivanhoe	3	643
Civil Service Examinations	1	218
Civilian Inventive Talent Needed to Solve U. S. Defense Problems	1	219
Code of Ethics for College Recruiting	3	755
Committee on Magnetic Recording, Report of Sub-Committee on Definitions and Measurements. L. W. Erath	4	922
Committee on Radioactive Mineral Exploration	2	513
Committees	1	171
	2	477
	3	737
	4	949
Continental Oil Company Scholarships	3	760
Contract Given for Preliminary Architectural Plan for New Engineering Center in Mid-Town Manhattan	1	219
Contributors	1	165
	2	468
	3	732
	4	944
Cook, Kenneth L., see J. Burlin Johnson, Jr.	1	48
Cook, Kenneth L., see Peter Mandel, Jr.	2	398
Cook, Kenneth L., see William O. Murphy, Jr.	4	813
Data Handling Workshop, Instrument and Automation Conference	3	762
Davis, Morgan J. Geophysics—Full Partner	2	225

Davis, W. E., W. H. Jackson and D. H. Richter. Gravity Prospecting for Chromite Deposits in Camaguey Province, Cuba . . . 1 62
Descriptive Geometry and the Offset Seismic Profile. John P. Gates . . . 4 848
DeWitte, Leendert, Kenneth P. Fournier and Hernan Tejada-Flores. Calculation of Guard Electrode Response Curves . . . 3 589
"Diffraction of a Longitudinal Pulse from a Wedge in a Solid," by W. W. Grannemann, Jnl. of the Acoust. Soc. of Amer., v. 28, p. 494–497, 1956. Review by Franklyn K. Levin . . . 1 67
Discussions and Communications . . . 1 147
Dobrin, Milton B. and Henry F. Dunlap. Geophysical Research and Progress in Exploration . . . 1 154
Drake, Charles L., see John E. Nafe . . . 2 412
Dunlap, Henry F., see Milton B. Dobrin . . . 3 523

EAEG Forms Geophysical Activities Committee . . . 2 412
Eagle Scout Named Antarctic Scientific Aide . . . 2 514
Earth Science Laboratory at MIT . . . 4 956
Eisler, J. D., see C. F. Hadley . . . 2 517
"Elasticity, Fracture and Flow," by J. C. Jaeger, John Wiley & Sons, Inc., New York, 152 p. Review by Franklyn K. Levin . . . 4 829
Electrical Recorder for Seismic Data. C. F. Hadley and J. D. Fisler . . . 3 724
Erath, L. W. Committee on Magnetic Recording, Report of Sub-Committee on Definitions and Measurements . . . 4 829
European Association of Exploration Geophysicists, Abstracts of Papers Presented at the Eleventh Meeting . . . 4 922
European Association of Exploration Geophysicists Awards . . . 3 742
European Association of Exploration Geophysicists Officers . . . 1 214
"Exploration for Nuclear Raw Materials," by Robert D. Nininger, D. Van Nostrand Co., Inc., Princeton, N. J. Review by Travis H. Redman . . . 1 214
Exploring for Ancient Channels with the Refraction Seismograph, L. C. Pakiser and R. A. Black . . . 2 454

Fellowships 1957–58 Saint Louis University . . . 1 32
Fournier, Kenneth P., see Lenndert DeWitte . . . 2 511
Fredricks, R. W., see L. Knopoff . . . 1 67
Frische, Richard H., and Haro von Buttlar. A Theoretical Study of Induced Electrical Polarization . . . 4 842

Gaither, V. U. Index of Wells Shot for Velocity (Fifth Supplement) . . . 3 688
Gangi, A. F., see L. Knopoff . . . 1 120
Gates, John P. Descriptive Geometry and the Offset Seismic Profile . . . 4 842
Geophysical Accident Information Exchange . . . 3 589
Geophysical Activity in 1955. Homer G. Patrick . . . 4 953
Geophysical Activity in 1956 Interim Report to Midyear. Homer G. Patrick . . . 1 89
Geophysical Case History of the Anderson Ranch Field, Lea County, New Mexico. Glen H. Swenumson . . . 1 104
"Geophysical Case Histories, Volume II," Paul L. Lyons, Editor, Society of Exploration Geophysicists, Tulsa, Okla., 641 p., 1956. Review by W. T. Born . . . 4 870
Geophysical Research and Progress in Exploration. Milton B. Dobrin and Henry F. Dunlap . . . 2 454
Geophysics—Full Partner. Morgan J. Davis . . . 2 412
Grant, Fraser. A Problem in the Analysis of Geophysical Data . . . 2 225
Graphical Calculation of Total-Intensity Anomalies of Three-Dimensional Bodies. Roland G. Henderson and Isidore Zietz . . . 2 309
Gravity Maximum in the Great Valley of California Due to the Isostatic Effect of the Sierra Nevada, A. L. F. Ivanhoe . . . 4 887
Gravity Prospecting for Chromite Deposits in Camaguey Province, Cuba. W. E. Davis, W. H. Jackson and D. H. Richter . . . 1 62
Gravity Survey over a Gulf Coast Continental Shelf Mound. L. L. Nettleton . . . 4 848
Gulf Seismic Profile Printer, The. E. M. Palmer . . . 3 630

Hadley, C. F., and J. D. Eisler. Electrical Recorder for Seismic Data . . . 2 286
Henderson, Roland G., and Isidore Zietz. Graphical Calculation of Total-Intensity Anomalies of Three-Dimensional Bodies . . . 4 829
Holmes, Charles R., see Victor Vacquier . . . 4 887
. . . 3 660

Horton, C. W. The Structure of the Noise Background of a Seismogram II . . . 2 261
Houston Geophysical Club Organized . . . 4 957
Houston Section Golf Tournament . . . 1 218
Howell, Lynn G., and Joseph D. Martinez. Polar Movement as Indicated by Rock Magnetism . . . 2 384
Hughes, Darrell S., and Christian Maurette. Variation of Elastic Wave Velocities in Basic Igneous Rocks with Pressure and Temperature . . . 1 23

IGY Will Bring 1,500 Scientists to Toronto . . . 3 753
Index of Wells Shot for Velocity (Fifth Supplement) V. U. Gaither . . . 1 120
Industrial Arts Index to Include GEOPHYSICS . . . 4 956
Irregular Magnetic Activity in Northern Canada with Special Reference to Aeromagnetic Survey Problems. K. Whitham and E. I. Loomer . . . 3 646
Ivanhoe, L. F. Chart to Check Elevation Factor Effects on Gravity Anomalies . . . 3 643
Ivanhoe, L. F. A Gravity Maximum in the Great Valley of California Due to the Isostatic Effect of the Sierra Nevada . . . 1 62

Jackson, W. H., see W. E. Davis . . . 4 848
Johnson, J. Burlin, Jr., and Kenneth L. Cook. Regional Gravity Survey of Parts of Tooele, Juab, and Millard Counties, Utah . . . 1 48

Karr, Philip R., see Ben S. Melton . . . 3 553
Kintzinger, Paul R., see Victor Vacquier . . . 3 660
Klopsteg, Paul E. Physics in America and the American Institute of Physics . . . 1 2
Knopoff, L., R. W. Fredricks, A. F. Gangi and L. D. Porter. Surface Amplitude of Reflected Body Waves . . . 4 842
Krishnamurthi, M., and S. Balakrishna. Attenuation of Sound in Rocks . . . 2 268

"The Lamb Problem for a Medium with an Elastic Aftereffect," by E. I. Shemyakin, Doklady Akademiia Nauk SSSR, v. 104, n. 2, p. 193–196, Sept. 11, 1955 (in Russian). Review by Leon Knopoff . . . 1 147

Laughton, A. S. Sound Propagation in Compacted Ocean Sediments . . . 2 233
Lavergne, Michel, see Victor Vacquier . . . 3 660
Local Sections . . . 1 172
2 478
3 738
4 950
Loomer, E. I., see K. Whitham . . . 3 646

Mandel, Peter, Jr., Joseph W. Berg, Jr. and Kenneth L. Cook. Resistivity Studies of Metalliferous Synthetic Cores . . . 2 398
Marine Sonoprobe, The . . . 2 517
Martinez, Joseph D., see Lynn G. Howell . . . 2 384
Maurette, Christian, see Darrell S. Hughes . . . 1 23
McGill University Offers Mineral Exploration Degree . . . 2 518
Melton, Ben S., and Leslie F. Bailey. Multiple Signal Correlators . . . 3 565
Melton, Ben S., and Philip R. Karr. Polarity Coincidence Scheme for Revealing Signal Coherence . . . 3 553
Membership Applications Received . . . 1 176
2 482
3 740
4 952
Memorial—Charles Andrew Arsenault, by Brooks Stewart . . . 2 459
Memorial—Stewart Barclay, by W. H. Courtier . . . 3 727
Memorial—Charles Harry Carlisle, by J. Angelo Smith . . . 1 156
Memorial—Donald Crary, by Roy F. Bennett . . . 2 461
Memorial—Herbert Vinson Crowder, by John D. Marr . . . 4 942
Memorial—Everette Lee DeGolyer, by J. C. Karcher . . . 2 463
Memorial—Eugene Perry Evans, by J. B. Ferguson . . . 3 729
Memorial—Carl August Heiland, by John C. Hollister . . . 1 157
Memorial—James Bernard Macelwane, S.J., by Victor J. Blum, S.J. . . . 2 159
Memorial—Morris Miller Slotnick, by R. R. Thompson . . . 1 163
Memorial—George Bailey Stone, by Harris H. Allen . . . 3 730

Memorial—Robert Treat Paine Thompson, by Cecil H. Green 2 466
Memorials Honor Father Macelwane 4 953
"Model Seismology (Part I)," by Yoshio Kato and Akio Takagi, Tohoku University Science Reports, v. 7, p. 35–44, 1955. Review by Franklyn K. Levin 1 148
Moody to Head AAPG 2 515
Multiple Signal Correlators. Ben S. Melton and Leslie F. Bailey 3 565
Murphy, William O., Jr., Joseph W. Berg and Kenneth L. Cook. Seismic Velocity Study of Synthetic Cores 4 813

NSF Supports Study of Engineering Education 3 760
Nafe, John E., and Charles L. Drake. Variation with Depth in Shallow and Deep Water Marine Sediments of Porosity, Density and the Velocities of Compressional and Shear Waves 3 523
Nafe, John E., see George H. Sutton 4 779
"National Petroleum Bibliography," issued bi-monthly by National Petroleum Bibliography, Amarillo, Texas. Review by W. T. Born 3 724
Nettleton, L. L. Gravity Survey over a Gulf Coast Continental Shelf Mound 3 630
Nettleton, L. L. Submarine Gravity Detailing, San Luis Pass Dome, Brazoria County, Texas 2 348
"The New Dallas Seismological Observatory at Southern Methodist University," Louis V. Hull, Bulletin of the Seismological Society of America, v. 46, p. 321–330, 1956. Review by W. T. Born 2 455
New Method for Interpretation of Aeromagnetic Maps: Pseudo-Gravimetric Anomalies, A. V. Baranov 2 359
New Officers of the Permian Basin Geophysical Society 2 514
Nominees for 1957–58 Executive Committee 2 507
Note on an Application of Sonar to the Shallow Reflection Problem. Isidore Zietz and L. C. Pakiser 2 345

Officers for the Year Ending in November, 1957 . . . . . 1 179
Ohio Oil Company Denver Research Center 1 215
Organic Reefs of Pennsylvanian Age in Haskell County, Texas. DeWitt C. Van Siclen . 3 610

Pacific Coast Fall Meeting (Announcement) 1 177
Pakiser, L. C., and R. A. Black. Exploring for Ancient Channels with the Refraction Seismograph 1 32
Pakiser, L. C., see Isidore Zietz 2 345
Palmer, E. M. The Gulf Seismic Profile Printer 2 286
Pan American Announces Fellowships 3 756
Patents. O. F. Ritzmann 1 136
2 442
3 714
4 932
Patents in the Service of Geophysics. O. F. Ritzmann 3 707
Patrick, Homer G. Geophysical Activity in 1955 . . . . . 1 89
Patrick, Homer G. Geophysical Activity in 1956 Interim Report to Mid-Year 1 104
Personal Items 1 221
2 519
3 763
4 958
Petroleum Engineers Organization Re-named 2 519
Physical Analysis of Deep Sea Sediments. George H. Sutton, Hans Berckhemer and John E. Nafe 4 779
Physics in America and the American Institute of Physics. Paul E. Klopsteg 2 2
Physics and Geophysics (Editorial) 1 1
Planners of the Twenty-Seventh Annual Meeting 2 517
Polar Movement as Indicated by Rock Magnetism. Lynn G. Howell and Joseph D. Martinez 2 384
Polarity Coincidence Scheme for Revealing Signal Coherence. Ben S. Melton and Philip R. Karr 3 553
Porter, L. D., see L. Knopoff 4 842
Postdoctoral Fellowship of Sigma Delta Epsilon 1 219
"The Potentials About a Point Electrode and Apparent Resistivity Curves for a Two-, Three-, and Four-Layer Earth," by Harold M. Mooney and W. W. Wetzel, The Uni-

versity of Minnesota Press, Minneapolis, 146 p., 1956. Review by Irwin Roman . . 1 150
Predictive Decomposition of Seismic Traces. Enders A. Robinson 4 767
Press, Frank. A Seismic Model Study of the Phase Velocity Method of Exploration . . 2 275
Problem in the Analysis of Geophysical Data, A. Fraser Grant 2 309
Propagation of an Electric Pulse Through a Homogeneous and Isotropic Medium. Bimal Krishna Bhattacharyya 4 905
Propagation of Transient Electromagnetic Waves in a Medium of Finite Conductivity. Bimal Krishna Bhattacharyya 1 75
Prospecting for Ground Water by Induced Electrical Polarization. Victor Vacquier, Charles R. Holmes, Paul R. Kintzinger and Michel Lavergne 3 660
Publications Received 1 153
2 458
3 726
4 941

Regional Gravity Survey of Parts of Tooele, Juab, and Millard Counties, Utah. J. Burlin Johnson, Jr. and Kenneth L. Cook 1 48
Report of SEG Subcommittee on Information on Magnetic Recorder Characteristics. S. Kaufman, A. L. Parrack and J. D. Skelton 2 434
Resistivity Studies of Metalliferous Synthetic Cores. Peter Mandel, Jr., Joseph W. Berg, Jr. and Kenneth L. Cook 2 398
Richardson, E. G., see J. Busby 4 821
Richter, D. H., see W. E. Davis 4 848
Ritzmann, O. F. Patents in the Service of Geophysics 3 707
Robinson, Enders A. Predictive Decomposition of Seismic Traces 4 767
Rust, W. M., Jr., Will Speak at Rice Institute Meeting 1 220

SEG Donates Library to The University of Tulsa 3 752
SEG Scholarship Program Reaches $8,000 Annually 2 512
SSC Occupies New Plant 2 516
Safety Meeting Aids 1 220
Saint Louise University Chapter Sponsors SEG Exhibit 3 753
San Diego State College Starts Geophysical Program 2 518
Scheidegger, A. E., and P. L. Willmore. The Use of a Least Squares Method for the Interpretation of Data from Seismic Surveys 1 9
"Scientific Uses of Earth Satellites," James A. Van Allen, Editor, The University of Michigan Press, Ann Arbor, 316 p., 1956. Review by Norman Ricker 2 455
Second Cuban Petroleum Congress 2 515
Seismic Model Study of the Phase Velocity Method of Exploration, A. Frank Press . . 2 275
Seismic Velocity Study of Synthetic Cores. William O. Murphy, Jr., Joseph W. Berg and Kenneth L. Cook 4 813
Shell Companies Foundation Contributions 3 756
Sinclair Refining Company Fellowship 3 756
Skelton, J. D., see S. Kaufman 2 434
Society Scholarship Program Continues to Grow 3 755
Sound Propagation in Compacted Ocean Sediments. A. S. Laughton 2 233
Southern Gives Film to Houston Student SEG 3 762
"Structural Geology," by L. U. de Sitter, McGraw-Hill Book Co., Inc., New York, 552 p., 1956. Review by Robert J. Watson 1 149
Structure of the Noise Background of a Seismogram II, The. C. W. Horton 2 261
Student Societies 1 175
2 481
3 739
4 951

Submarine Gravity Detailing, San Luis Pass Dome, Brazoria County, Texas. L. L. Nettleton 2 348
Surface Amplitude of Reflected Body Waves. L. Knopoff, R. W. Fredricks, A. F. Gangi and L. D. Porter 4 842
Sutton, George H., Hans Berckhemer and John E. Nafe. Physical Analysis of Deep Sea Sediments 4 779
Swenumson, Glen H. Geophysical Case History of the Anderson Ranch Field, Lea County, New Mexico 4 870

Technical Personnel Recruiting Exposition 2 518

Tejada-Flores, Hernan, see Leendert DeWitte 1 67
Tenth Anniversary of the Chartering of Local Sections to be Commemorated 4 956
Texas A & M Students Organize 2 514
Theoretical Study of Induced Electrical Polarization, A. Richard H. Frische and Haro von Buttlar 3 688
Three New Laboratories Opened by Gulf Oil Corp. 4 955
Twenty-Sixth Annual Meeting 2 485
Twenty-Seventh Annual Meeting (Announcement) 1 177

Use of a Least Squares Method for the Interpretation of Data from Seismic Surveys, The. A. E. Scheidegger and P. L. Willmore 1 9
Utah Geophysical Society Chartered 2 513

Vacquier, Victor, Charles R. Holmes, Paul R. Kintzinger and Michel Lavergne. Prospecting for Ground Water by Induced Electrical Polarization 3 660
Van Siclen, DeWitt C. Organic Reefs of Pennsylvanian Age in Haskell County, Texas . 3 610
Variation of Elastic Wave Velocities in Basic Igneous Rocks with Pressure and Temperature. Darrell S. Hughes and Christian Maurette. 1 23
Variation with Depth in Shallow and Deep Water Marine Sediments of Porosity, Density and the Velocities of Compressional and Shear Waves. John E. Nafe and Charles L. Drake 3 523
von Buttlar, Haro, see Richard H. Frische 3 688

Whitman, K., and E. I. Loomer. Irregular Magnetic Activity in Northern Canada with Special Reference to Aeromagnetic Survey Problems 3 646
Willmore, P. L., see A. E. Scheidegger 1 9
"World Petroleum," January, 1957. Review by W. T. Born 3 724

Zietz, Isidore, see Roland G. Henderson 4 887